

REMARKS

Claims 59-78, 80-87, and 89-95 are pending in the present application. Claims 1-58, 79 and 88 have been canceled. Claim 95 has been added.

1. Claims 59-75 have been rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. Paragraph 22 has been amended to provide support in the written description. Support for this amendment is provided in at least Figs. 8-11, 20, 20a, 21, 21a, and 22. The Applicant submits that this objection is now moot.

2. The Applicant notes that the Office Action dated February 22, 2010 did not specifically address the reason for rejection or allowance of claim 76 in the Detailed Action. The Applicant has assumed the Examiner has rejected this claim for the same reasons as independent claim 59.

3. Claims 59, 60, 62-65, 72, 76-80, 87 and 94 stand rejected under 35 U.S.C. §102(e) as being anticipated by Dietz (5,771,844)

Regarding independent claim 59, the Examiner contends that Dietz shows all the limitations of this claim. The Applicant respectfully traverses the Examiner's rejection in light of the amendment to written description, which provides the required support in the written description.

Specifically, claim 59 clearly defines the common wall as a wall disposed between the reaction chamber and the separation chamber of the centrifugal separator. Claim 59, further defines the common wall as "having opposing sides, whereby one opposing side defines at least a portion of a wall of the reaction chamber and the other opposing side defines at least a portion of a wall of the separation chamber."

The Applicant contends that Dietz does not show such a circulating fluidized bed reactor as defined in claim 59. For instance, Dietz does not show the reaction chamber and the separation chamber of the centrifugal separator "having a common wall disposed therebetween, the common wall having opposing sides, whereby one opposing side defines at least a portion of a wall of the reaction chamber and the other opposing side defines at least a portion of a wall of the separation chamber", as newly claimed. In contrast, Dietz shows the furnace 14 spaced from the cyclone barrel 16 of the cyclone separator 10, as agreed by the Examiner.

Regarding independent claim 76, the Applicant assumes that the Examiner contends that Dietz shows all the limitations of this claim. The Applicant respectfully traverses the Examiner's rejection of claim 76 in light of the following.

Claim 76 has been amended to clearly define which wall of the separator, namely the wall of the separation chamber, is contiguous with a wall of the reaction chamber. Specifically, claim 76 recites that "a wall of the reaction chamber and a wall of the separation chamber of the centrifugal separator are contiguous." (emphasis added) In contrast, Dietz shows the furnace 14 spaced from the cyclone barrel 16 of the cyclone separator 10, whereby only the wall of the acceleration duct of the separator is contiguous with the wall of the furnace 14. Therefore, a wall of the furnace is not contiguous to a wall of the cyclone barrel, as claimed by Applicant.

Regarding independent claim 94, Dietz does not show "at least part of the acceleration duct is disposed within the separation chamber of the centrifugal separator" as claimed by Applicant. To the contrary, Dietz shows the acceleration duct extending from the cyclone barrel, and not from within.

The Applicant therefore respectively asserts that claims 59, 76 and 94 are patentable over Dietz for at least these reasons. It is respectfully requested that these claims be reconsidered and allowed.

4. Claims 60, 62-65, 72, 77, 78, 80 and 87 variously depend on independent claims 59 and 76, and therefore, are patentable over Dietz for at least the reasons provided hereinbefore. It is respectfully requested that these claims be reconsidered and allowed.

5. Claims 61, 66 and 81 stand rejected under 35 U.S.C. §103(a) as being unpatentable over Dietz (5,771,844).

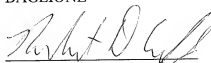
Claims 61, 66 and 81 depend on independent claims 59 or 76, and therefore, are patentable over Dietz for at least the reasons provided hereinbefore. It is respectfully requested that these claims be reconsidered and allowed.

6. A petition for a three (3) month extension of time under 37 CFR 1.136 is submitted herewith. Please charge the fee of \$1110.00 for the three-month extension of time and \$810.00 for

the filing of the RCE to Deposit Account No. 03-2578 Order No. VA30408. Any deficiency or overpayment should be charged or credited to Deposit Account No. 03-2578 Order No. VA30408.

Respectfully submitted,

BAGLIONE

A handwritten signature in dark ink, appearing to read 'Robert D. Crawford', is written over a horizontal line.

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